Color by Number Inequalities (Multi-Step)

Activities by Jill

Students will solve multistep inequalities involving integers.

Note: This activity may be used with or without the graphing page.

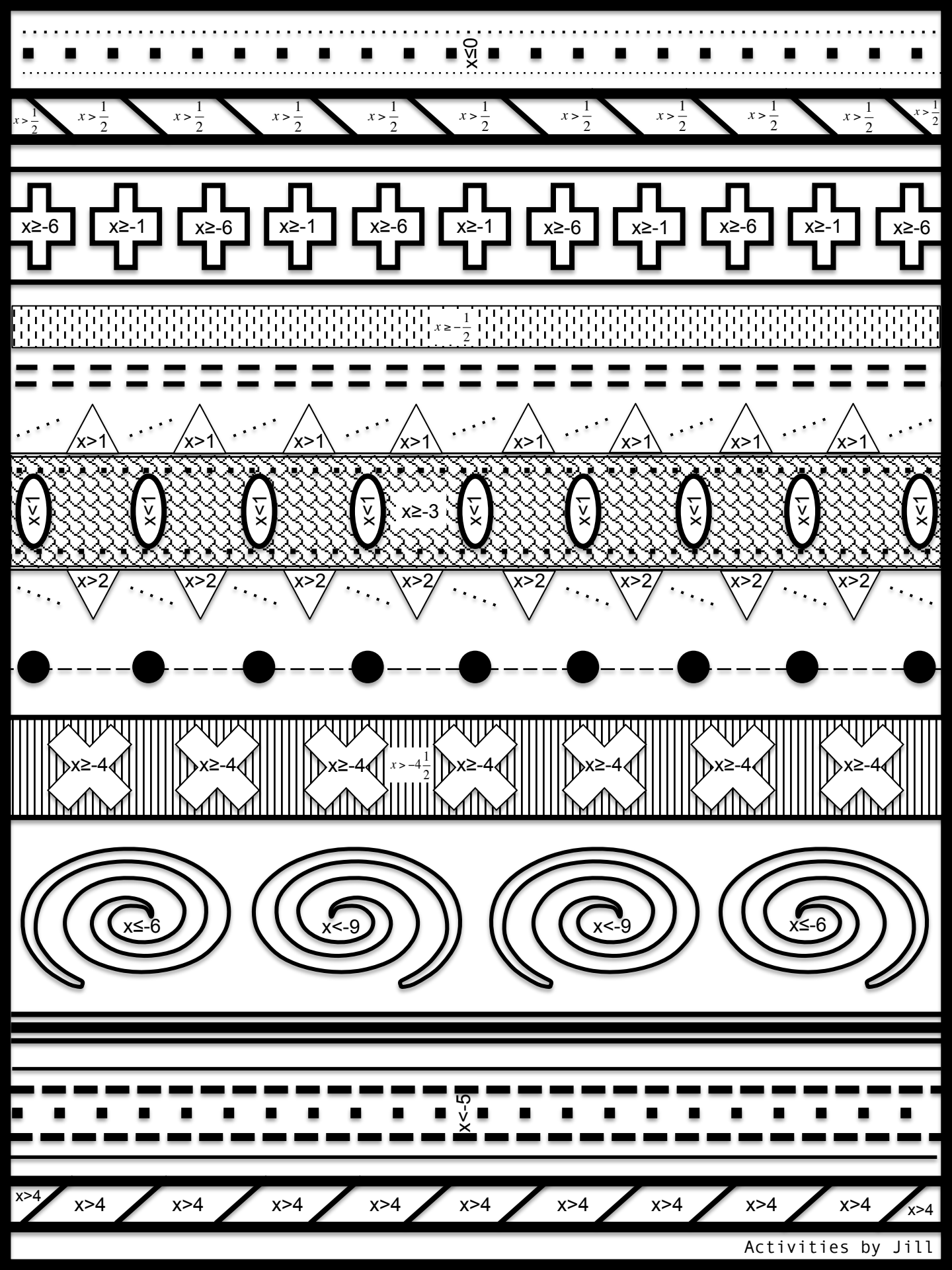
Color By Number: Inequalities (Multi-Step)

Name: _____

Solve each problem. Show all work clearly.
Find each answer on the coloring page and color according to the color code.

1) $8-x \le 3(8+5x)$	2) $4x+2x<1+5x-10$	3) $21-(x+8)>6(3-x)$
Yellow	Orange	Pink
4) $0 \ge 9-9(x+5)$	5) $-2-7x>-x+23-x$	6) $-(3x+2)>4+2(8-7x)$
Green	Pink	Yellow
7) $35+21x \le 2-3(25-x)$	8) $-11-x \le x+1$	9) $-x-(x-8)-17<0$
Blue	Orange	Red
10) $-55x \le 30-(x+3)$	11) $6x-7(4-3x)<-x$	12) $-13 \le 11x+20$
Green	Orange	Blue
13) $0 \le -34-2(x-17)$	14) $34x>8(13+1x)$	15) $92x>-2(4x-25)$
Red	Blue	Pink

Objective: Students will solve multistep inequalities.
Activities by Jill


x≤0
x > 1/2
x≥-6
x≥-1
x ≥ -1/2
x>1
x>2
x≥-3
x≥-4
x > -4 1/2
x≤-6
x<-9
x<-9
x≤-6
x<-5
x>4
Activities by Jill

Graphing: Inequalities (Multi-Step)

Name: _____

Graph each solution from the Color by Number: Inequalities (Multi-Step) activity in the area provided.

1)	2)	3)
4)	5)	6)
7)	8)	9)
10)	11)	12)
13)	14)	15)

Objective: Students will solve multistep inequalities.
Activities by Jill

Color By Number: Inequalities (Multi-Step)

Name: Key

Solve each problem. Show all work clearly.
Find each answer on the coloring page and color according to the color code.

1) $8-x\le 3(8+5x)$ $8-x\le 24+15x$ $8-16x\le 24$ $-16x\le 16$ $x\ge -1$ **Yellow**	2) $4x+2x<1+5x-10$ $6x<5x-9$ $x<-9$ **Orange**	3) $21-(x+8)>6(3-x)$ $21-x-8>18-6x$ $13-x>18-6x$ $13+5x>18$ $5x>5$ $x>1$ **Pink**
4) $0\ge 9-9(x+5)$ $0\ge 9-9x-45$ $0\ge -9x-36$ $36\ge -9x$ $-4\le x$ $x\ge -4$ **Green**	5) $-2-7x>-x+23-x$ $-2-7x>-2x+23$ $-2-5x>23$ $-5x>25$ $x<-5$ **Pink**	6) $-(3x+2)>4+2(8-7x)$ $-3x-2>4+16-14x$ $-3x-2>20-14x$ $11x-2>20$ $11x>22$ $x>2$ **Yellow**
7) $35+21x\le 2-3(25-x)$ $35+21x\le 2-75+3x$ $35+21x\le -73+3x$ $35+18x\le -73$ $18x\le -108$ $x\le -6$ **Blue**	8) $-11-x\le x+1$ $-11-2x\le 1$ $-2x\le 12$ $x\ge -6$ **Orange**	9) $-x-(x-8)-17<0$ $-x-x+8-17<0$ $-2x-9<0$ $-2x<9$ $x>-4\frac{1}{2}$ **Red**
10) $-55x\le 30-(x+3)$ $-55x\le 30-x-3$ $-55x\le 27-x$ $-54x\le 27$ $x\ge -\frac{1}{2}$ **Green**	11) $6x-7(4-3x)<-x$ $6x-28+21x<-x$ $-28+27x<-x$ $-28<-28x$ $1>x$ $x<1$ **Orange**	12) $-13\le 11x+20$ $-33\le 11x$ $-3\le x$ $x\ge -3$ **Blue**
13) $0\le -34-2(x-17)$ $0\le -34-2x+34$ $0\le -2x$ $0\ge x$ $x\le 0$ **Red**	14) $34x>8(13+1x)$ $34x>104+8x$ $26x>104$ $x>4$ **Blue**	15) $92x>-2(4x-25)$ $92x>-8x+50$ $100x>50$ $x>\frac{1}{2}$ **Pink**

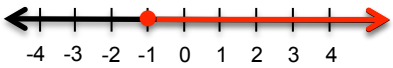
Objective: Students will solve multistep inequalities.
Activities by Jill

Graphing: Inequalities (Multi-Step)

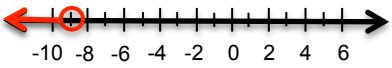
Name: Key

Graph each solution from the Color by Number: Inequalities (Multi-Step) activity in the area provided.

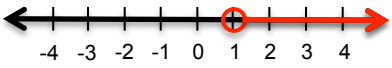
1) $x \geq -1$



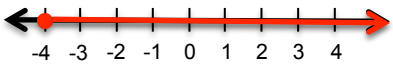
2) $x < -9$



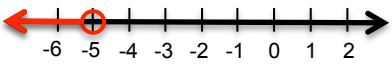
3) $x > 1$



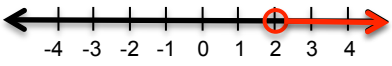
4) $x \geq -4$



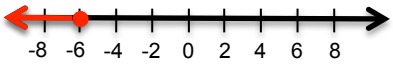
5) $x < -5$



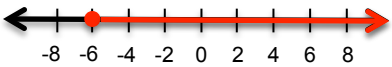
6) $x > 2$



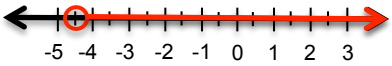
7) $x \leq -6$



8) $x \geq -6$

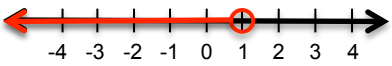


9) $x > -4\frac{1}{2}$

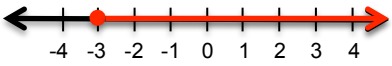


10) $x \geq -\frac{1}{2}$

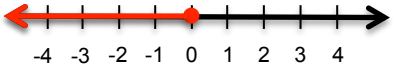
11) $x < 1$



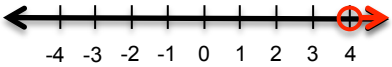
12) $x \geq -3$



13) $x \leq 0$



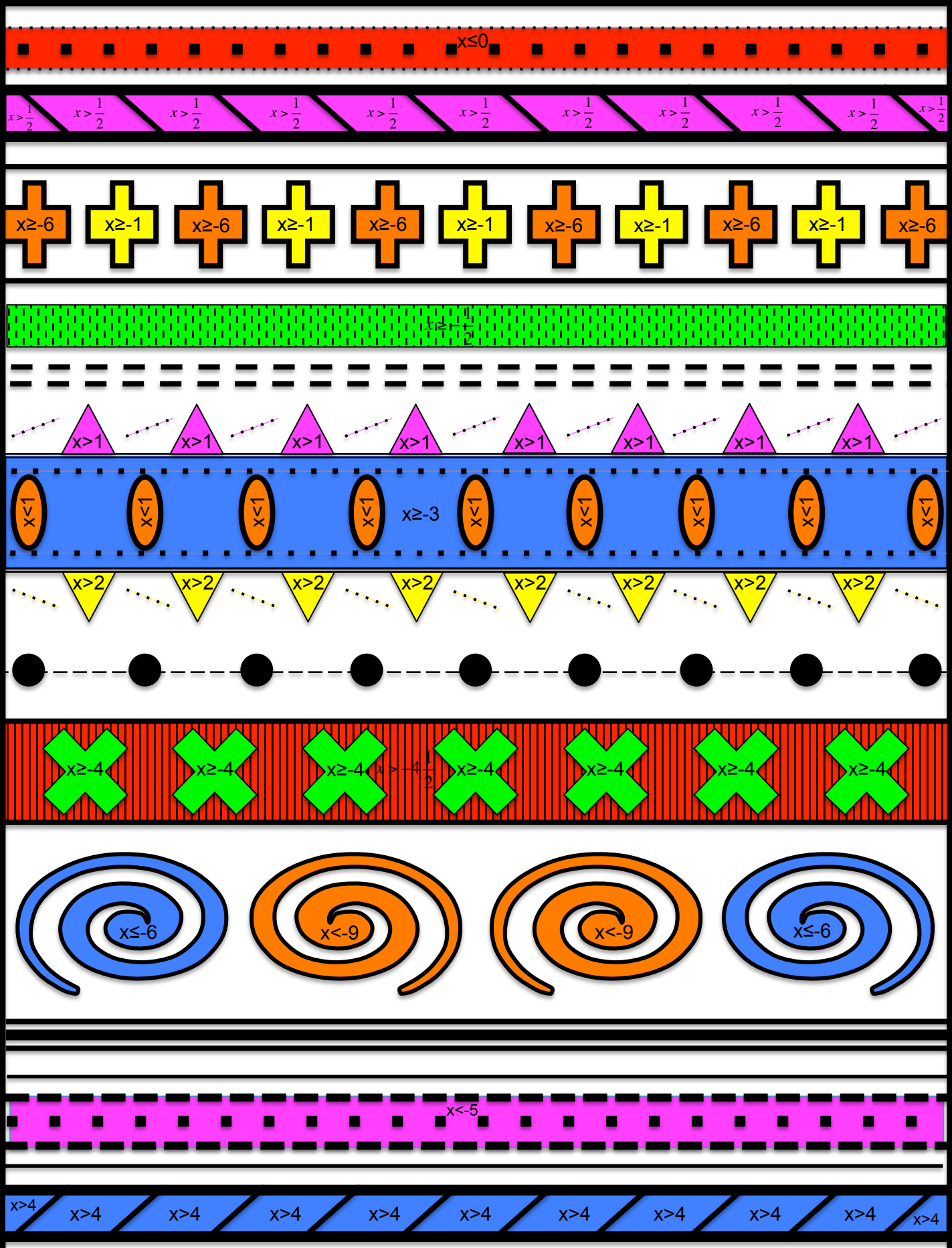
14) $x > 4$



15) $x > \frac{1}{2}$

Objective: Students will solve multistep inequalities.

Activities by Jill


x≤0
x > 1/2
x≥-6
x≥-1
x≥ -1/2
x>1
x≥-3
x>2
x≥-4
x > -4 1/2
x≤-6
x<-9
x<-5
x>4
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